

IN THE SPECIFICATION:

Please insert the following paragraph and subheading on page 1, after the title:

The present application claims priority under 35 U.S.C. §119 to Japanese Patent Application No. 2002-218779, filed July 26, 2002, the entire disclosure of which is hereby incorporated by reference.

BACKGROUND OF THE INVENTION

Please amend the subheading on page 1, line 11, as follows:

~~BACKGROUND~~ DESCRIPTION OF THE INVENTION RELATED ART

Please amend the paragraph beginning on page 6, line 4, as follows:

For instance, ~~US~~ U.S. Patent No. 5,363,108 to Fullerton, titled "TIME DOMAIN RADIO TRANSMISSION SYSTEM", discloses a technique for communication and a radar device utilizing impulse radio, as illustrated in a block diagram in Fig. 10.

Please amend the subheading on page 10, line 16, as follows:

DESCRIPTION OF THE ~~EMBODIMENTS~~ INVENTION

IN THE ABSTRACT:

Please **substitute the attached Abstract** for that originally
filed.